

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	03/17/2015 03/17/2015	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD2031_01_s _ 2013_5				
Action/Comments					
Inspector Comments: LMA has a flood response plan.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD2031_01_s _ 2013_6				
Action/Comments					
Inspector Comments: Supplies available on-site.					

No Photos

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD2031_01_s _ 2013_12				
Action/Comments					
Inspector Comments: O&M Manual available at the office.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	03/17/2015 03/17/2015	Maksim Khashchuk

LM Start	0.46	Rating **	M	Issue No.	1
LM End	0.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.704740 °	37.704740 °
				-121.159140 °	-121.159140 °
DWR ID	DWR_RD2031_01_s _ 2015_1				
Action/Comments					
Inspector Comments: 07/31/2014: No significant change observed. 09/10/2013: No significant change observed. 07/18/2012: No significant change observed. 08/18/2011: No significant change observed on site. Debris that blocks the irrigation outlet is visible. 10/19/2010: No significant change observed on site. Sloughing of the bank is occurring adjacent to an irrigation outlet structure. There is moderate to heavy vegetation along the bank that is well established. Broken chunks and slabs of concrete are used as rip rap and line the outside of the irrigation outlet structure. However, much of the rip rap along the slope is sloughing and could possibly lead to future slope instability. 08/05/2010: Recommended as a local maintenance issue, per CLRO. 08/20/2009: No major change observed since last visit; 1 inch fissure cracks developing on the slope; rip rap is showing signs of sloughing; recommend as local maintenance issue; site was previously rated "U". 2008: No change from previous year; irrigation outlet located on site; rip rap placed on river bank. 09/06/2007: Near agricultural diversion; only 3' landside height differential. [2014 Site ID:RD2031U01RM0.48]					

Photo 1 of 1 : SP\_2015\_RD2031\_307\_1\_20150317\_00001.jpg



Looking down at the site. The irrigation outlet is operating. Debris is visible at the outlet.

LM Start	0.51	Rating **	M	Issue No.	2
LM End	0.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.704050 °	37.704050 °
				-121.159578 °	-121.159578 °
DWR ID	DWR_RD2031_01_s _ 2012_2				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Remove vegetation 20 feet away from the levee crown.					

Photo 1 of 2 : SP\_2015\_RD2031\_307\_2\_20150317\_00002.jpg



View of vegetation on waterside slope. Facing upstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Unit No. 01 Stanislaus River	Left	7.07	03/17/2015 03/17/2015	Maksim Khashchuk

LM Start	0.51	Rating **	M	Issue No.	2 (cont)	
LM End	0.51	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.704050 °		37.704050 °
				-121.159578 °		-121.159578 °
DWR ID	DWR_RD2031_01_s _ 2012_2					
Action/Comments						
Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comments: Remove vegetation 20 feet away from the levee crown.						

Photo 2 of 2 : SP\_2015\_RD2031\_307\_2\_20150317\_00003.jpg



10/26/2011 Updated photo of waterside vegetation.

LM Start	0.77	Rating **	M	Issue No.	36
LM End	0.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.701177 °	37.701177 °
				-121.162055 °	-121.162055 °
DWR ID	DWR_RD2031_01_f _ 2012_36				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP\_2015\_RD2031\_307\_36\_20150317\_00021.jpg



View of rodent burrows on landside slope.

LM Start	0.81	Rating **	C	Issue No.	20
LM End	0.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.700799 °	37.700799 °
				-121.162418 °	-121.162418 °
DWR ID	DWR_RD2031_01_s _ 2013_20				
Action/Comments					
Pipe					
Inspector Comments: PVC pipe present and obstructing drain pipe.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	03/17/2015 03/17/2015	Maksim Khashchuk

LM Start	0.91	Rating **	N	Issue No.	49
LM End	0.91	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.699790 °	37.699790 °
				-121.163730 °	-121.163730 °
DWR ID	DWR_RD2031_01_s_2015_49				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : SP\_2015\_RD2031\_307\_49\_20150330\_00052.jpg



View of the tree stump on the waterside levee slope.

LM Start	1.00	Rating **	M	Issue No.	59
LM End	1.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.699327 °	37.699327 °
				-121.165364 °	-121.165364 °
DWR ID	DWR_RD2031_01_f_2014_59				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	1.14	Rating **	M	Issue No.	128
LM End	1.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.698873 °	37.698873 °
				-121.167785 °	-121.167785 °
DWR ID	DWR_RD2031_01_s_2014_128				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 1 : SP\_2015\_RD2031\_307\_128\_20150317\_00036.jpg



View of the rodent hole on the waterside levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	03/17/2015 03/17/2015	Maksim Khashchuk

LM Start	1.56	Rating **	M	Issue No.	3
LM End	1.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.698776 °	37.698776 °
				-121.174327 °	-121.174327 °
DWR ID	DWR_RD2031_01_s _ 2012_3				
Action/Comments					
Note and monitor erosion site.					
Inspector Comments: Erosion is active around the irrigation standpipe.					

Photo 1 of 2 : SP\_2015\_RD2031\_307\_3\_20150317\_00004.jpg



View of the erosion site on landside slope, facing upstream.

LM Start	<b>1.56</b>	Rating **	M	Issue No.	<b>3 (cont)</b>
LM End	<b>1.56</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2015\_RD2031\_307\_3\_20150317\_00005.jpg



10/26/2011 Active erosion into the levee prism around irrigation standpipe.

LM Start	1.58	Rating **	M	Issue No.	8
LM End	1.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.698610 °	37.698610 °
				-121.174598 °	-121.174598 °
DWR ID	DWR_RD2031_01_s _ 2012_8				
Action/Comments					
Note and monitor erosion site.					
Inspector Comments: Active erosion is occurring around irrigation inlet.					

Photo 1 of 1 : SP\_2015\_RD2031\_307\_8\_20150317\_00010.jpg



10/26/2011 Active erosion shown around irrigation inlet.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	03/17/2015 03/17/2015	Maksim Khashchuk

LM Start	1.62	Rating **	A/W	Issue No.	52
LM End	1.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.698334 °	37.698334 °
				-121.175176 °	-121.175176 °
DWR ID	DWR_RD2031_01_f_2013_52				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP\_2015\_RD2031\_307\_52\_20150317\_00030.jpg



View of the multiple large rodent hole in the waterside levee slope.

LM Start	1.63	Rating **	M	Issue No.	9
LM End	1.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.698208 °	37.698208 °
				-121.175400 °	-121.175400 °
DWR ID	DWR_RD2031_01_s_2012_9				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Active erosion around irrigation inlet in levee prism.					

Photo 1 of 1 : SP\_2015\_RD2031\_307\_9\_20150317\_00011.jpg



10/26/2011 Active erosion into levee prism around irrigation inlet.

LM Start	2.00	Rating **	M	Issue No.	38
LM End	2.07	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.693720 °	37.692782 °
				-121.177527 °	-121.177642 °
DWR ID	DWR_RD2031_01_s_2012_38				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
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Unit No. 01 Stanislaus River	Left	7.07	03/17/2015 03/17/2015	Maksim Khashchuk

LM Start	2.53	Rating **	M	Issue No.	54
LM End	2.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.687418 °	37.686816 °
				-121.181536 °	-121.184342 °
DWR ID	DWR_RD2031_01_s _ 2015_54				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP\_2015\_RD2031\_307\_54\_20150330\_00054.jpg



View of the vegetation on the levee slope.

LM Start	3.51	Rating **	A/W	Issue No.	24
LM End	3.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.690864 °	37.690864 °
				-121.195990 °	-121.195990 °
DWR ID	DWR_RD2031_01_s _ 2012_24				
Action/Comments					
Pipe					
Inspector Comments: Drain to channel					

No Photos

LM Start	3.73	Rating **	M	Issue No.	56
LM End	4.40	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.689772 °	37.686397 °
				-121.199569 °	-121.207931 °
DWR ID	DWR_RD2031_01_s _ 2015_56				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP\_2015\_RD2031\_307\_56\_20150330\_00055.jpg



View of the annual vegetation on the levee crown and slopes.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	03/17/2015 03/17/2015	Maksim Khashchuk

LM Start	5.37	Rating **	M	Issue No.	57
LM End	7.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.677346 °	37.661837 °
				-121.217537 °	-121.232954 °
DWR ID	DWR_RD2031_01_s_2015_57				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP\_2015\_RD2031\_307\_57\_20150330\_00056.jpg



View of the annual vegetation on the landside levee slope.

LM Start	6.15	Rating **	M	Issue No.	19
LM End	6.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.668988 °	37.668302 °
				-121.223514 °	-121.227842 °
DWR ID	DWR_RD2031_01_s_2014_19				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	03/17/2015 03/17/2015	Maksim Khashchuk

LM Start	0.71	Rating **	M	Issue No.	18
LM End	1.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.654134 °	37.648209 °
				-121.230216 °	-121.221174 °
DWR ID	DWR_RD2031_02_s_2015_18				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP\_2015\_RD2031\_308\_18\_20150330\_00020.jpg



View of the annual vegetation on the landside levee slope.

LM Start	1.41	Rating **	M	Issue No.	15
LM End	1.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.648080 °	37.648080 °
				-121.221031 °	-121.221031 °
DWR ID	DWR_RD2031_02_s_2013_15				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP\_2015\_RD2031\_308\_15\_20150317\_00007.jpg



View of the tree limb obstructing visibility and access to the landside levee slope.

LM Start	2.01	Rating **	M	Issue No.	25
LM End	2.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.640874 °	37.640874 °
				-121.223870 °	-121.223870 °
DWR ID	DWR_RD2031_02_f_2014_25				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP\_2015\_RD2031\_308\_25\_20150317\_00010.jpg



View of the overgrown tree obstructing visibility and access of the landside levee slope.

<b>* Location</b>		<b>** Rating</b>		<b>+ Issue Type</b>	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	03/17/2015 03/17/2015	Maksim Khashchuk

LM Start	2.14	Rating **	M	Issue No.	21
LM End	2.14	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.640632 °	37.640632 °
				-121.221539 °	-121.221539 °
DWR ID	DWR_RD2031_02_f_2014_21				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : SP\_2015\_RD2031\_308\_21\_20150317\_00008.jpg



View of overgrown vegetation on the levee crown.

LM Start	2.97	Rating **	M	Issue No.	966
LM End	3.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.637626 °	37.638301 °
				-121.207191 °	-121.196465 °
DWR ID	DWR_RD2031_02_s_2012_966				
Action/Comments					
Trim trees to at least five feet above ground level. Inspector Comments: Obstructive trees and vegetation along highway are on the landside slope of the levee.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	03/17/2015 03/17/2015	Maksim Khashchuk

LM Start	4.31	Rating **	A/W	Issue No.	1
LM End	4.31	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.631716 °	37.631716 °
				-121.189370 °	-121.189370 °
DWR ID	DWR_RD2031_02_s _ 2015_1				
Action/Comments					
Inspector Comments: 7/17/2014: The erosion has slightly expanded toward levee toe at two pocket locations. 09/10/2013: The site has been visited. The erosion has expanded toward levee crest at two pocket locations. 07/18/2012: No significant change observed on the site. 08/18/2011: No significant change observed on the site. Dead trees and animal activities are visible. The closest point of the erosion site to the levee toe is about 100 ft. 10/19/2010: There is active scouring occurring on the bank due to the nature of the flow and the lack of armor protection. There is also a fallen log immediately downstream of where the erosion has occurred and is protruding outward, possibly creating an eddy and scouring the bank. With the remaining 100-foot wide berm, the levee prism is not yet affected. However, the bank will continue to degrade, and eventually intrude into the levee prism if no protection is put in place. Erosion site is recommended for annual assessment and monitoring during flood events. [2014 Site ID:RD2031U02RM78.7]					

Photo 1 of 1 : SP\_2015\_RD2031\_308\_1\_20150317\_00001.jpg



Looking downstream. The erosion has progressed toward levee.

LM Start	4.53	Rating **	A/W	Issue No.	22
LM End	4.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.630855 °	37.630855 °
				-121.185442 °	-121.185442 °
DWR ID	DWR_RD2031_02_f _ 2012_22				
Action/Comments					
Pipe					
Inspector Comments: 36" discharge pipe through the levee with flap gate closed.					

Photo 1 of 1 : SP\_2015\_RD2031\_308\_22\_20150317\_00009.jpg



View of the closed flap gate on waterside.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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